

## **<sup>201</sup>Pb (Continued)**

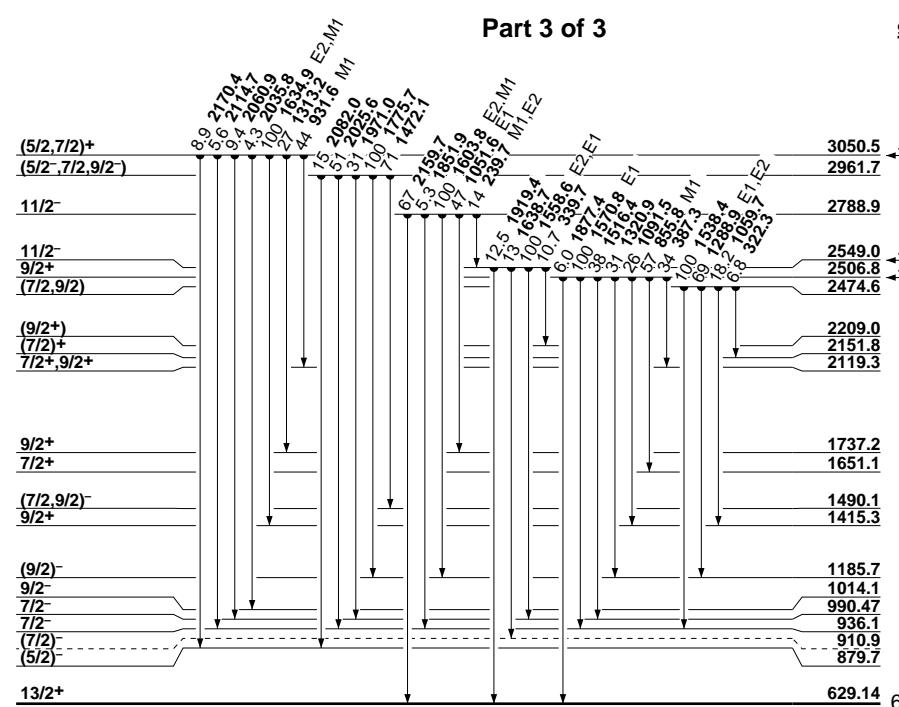
3831.5+x, 35/2(−), [E]  $\gamma_{3545+x}^{287.0}$  (t<sub>γ</sub>, 100) M1  
 3932.0+x, 33/2(+), [E]  $\gamma_{3638+x}^{293.8}$  (t<sub>γ+e</sub>, ≈76)  $\gamma_{3545+x}^{387.5}$  (t<sub>γ+e</sub>, ≈20)  
 $\gamma_{3510+x}^{422.5}$  (t<sub>γ+e</sub>, 100)  
 4090.5+y, J+4, [E]  $\gamma_{3687+y}^{404.0}$  (t<sub>γ</sub>, 100)  
 4505.1+x, 35/2, [E]  $\gamma_{3932+x}^{573.1}$  (t<sub>γ</sub>, 21) D  $\gamma_{2719+x}^{627.2}$  (t<sub>γ</sub>, 10)  $\gamma_{2719}^{727.7}$  (t<sub>γ</sub>, 100)  
 4549.4+y, J+5, [E]  $\gamma_{4091+y}^{458.9}$  (t<sub>γ</sub>, 100)  
 4559.2+x, 37/2(+), [E]  $\gamma_{3932+x}^{627.2}$  (t<sub>γ</sub>, 10)  $\gamma_{3832+x}^{727.7}$  (t<sub>γ</sub>, 100)  
 4639.3+x, 41/2(+), 43.3 ns, [E], μ=−3.69 82  $\gamma_{4559+x}^{80.1}$  (t<sub>γ</sub>, 100) E2  
 4640.0+x, (35/2), [E]  $\gamma_{3932+x}^{708}$  (t<sub>γ</sub>, 100)  
 4640+z, [E]  
 4769.5+z, J=35/2, [E]  
 4899.0+z, J+1, [E]  $\gamma_{4770+z}^{129.5}$  (t<sub>γ</sub>, 100)  
 5000.0+x, [E]  $\gamma_{4640+x}^{360}$   
 5055.2+y, J+6, [E]  $\gamma_{4549+y}^{505.8}$  (t<sub>γ</sub>, 100)  
 5070.5+z, J+2, [E]  $\gamma_{4899+z}^{171.5}$  (t<sub>γ</sub>, 100)  
 5086.2+x, [E]  $\gamma_{4639+x}^{446.9}$  (t<sub>γ</sub>, 100)  
 5172.6+x, [E]  $\gamma_{4505+x}^{667.5}$  (t<sub>γ</sub>, 100)  
 5291.1+z, J+3, [E]  $\gamma_{5071+z}^{220.6}$  (t<sub>γ</sub>, 100)  
 5424.7+x, [E]  $\gamma_{4639+x}^{785.4}$  (t<sub>γ</sub>, 100)  
 5567.0+z, J+4, [E]  $\gamma_{5291+z}^{275.9}$  (t<sub>γ</sub>, 100)  
 5900.6+z, J+5, [E]  $\gamma_{5567+z}^{333.6}$  (t<sub>γ</sub>, 100)  
 6282.2+z, J+6, [E]  $\gamma_{5901+z}^{381.6}$  (t<sub>γ</sub>, 100)

γ from <sup>201</sup>Pb (61 s) IT decay < for 1γ% multiply by 1.0>

629.12 (t<sub>γ</sub>, 54) M4.

γ(<sup>201</sup>Tl) from <sup>201</sup>Pb (9.33 h) EC+β<sup>+</sup> decay < for 1γ% multiply by 0.7915>

58.925 (?) (t <sub>γ</sub> , <0.31),	120.02 (t <sub>γ</sub> , 0.0267),	124.22 (t <sub>γ</sub> , 0.05511),	129.9210 (t <sub>γ</sub> , 0.142),
155.31 10 (t <sub>γ</sub> , 0.183),	202.79 10 (t <sub>γ</sub> , 0.08811),	231.85 10 (t <sub>γ</sub> , 0.12718),	241.028 (t <sub>γ</sub> , 0.223),
285.0 (t <sub>γ</sub> , ≈0.1),	285.1 (t <sub>γ</sub> , ≈0.1),	302.74 (?) (t <sub>γ</sub> , 0.0144),	308.96 15 (t <sub>γ</sub> , 0.0517),
341.528 (t <sub>γ</sub> , 0.13018),	345.045 (t <sub>γ</sub> , 0.363)	M1,	361.275 (t <sub>γ</sub> , 12.56) M1+E2: δ=+1.33 6,
			381.38 15 (t <sub>γ</sub> , 0.29016) M1,



Part 3 of 3

## **<sup>201</sup>Bi**

Δ: −21450 30 S<sub>n</sub>: 9160 90 S<sub>p</sub>: 2480 30 Q<sub>EC</sub>: 3840 40 Q<sub>α</sub>: 4500 6

### Populating Reactions and Decay Modes

A <sup>201</sup>Po EC decay (15.3 m) (66Ma51, 76Ko13, 78WeZT, 80Br23, 86Be07, 86Br28, 90Ne01)

B <sup>201</sup>Po EC decay (8.9 m) (71Jo19, 76Ko13, 86Br28)

C <sup>201</sup>Bi IT decay (59.1 m)

D <sup>205</sup>At α decay (63Ho18, 71Sc35, 74Ho27)

E <sup>193</sup>Ir(<sup>12</sup>C, 4nγ) (73GiZW, 75OhZZ, 85Pi05)

F <sup>196</sup>Pt(<sup>10</sup>B, 5nγ) (81Pi05, 82Br21, 85Pi05)

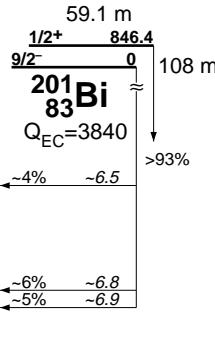
G <sup>203</sup>Tl(α, 6nγ) (76Ko13, 82Br21, 85Pi05)

### Levels and γ-ray branchings:

0, 9/2+, 108.3 m, [ABCDEF], %EC+%β<sup>+</sup>=100, %α<1×10<sup>-4</sup>

846.34 21, 1/2+, 59.16 m, [AC], %EC>93, %IT<6.8, %α≈0.3 γ<sub>0</sub> 846.45 (t<sub>γ</sub>, 100)

M4(+E5): δ<0.26



0 9.33 h

## **<sup>201</sup>Pb**